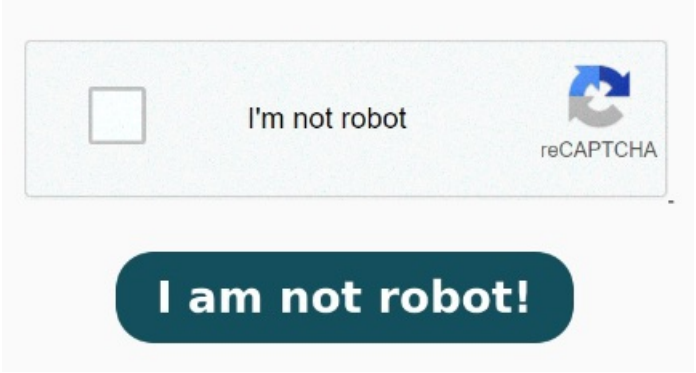
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Systems are available for In iding if a VRF system is feasible for a particular project, the designer should consider building characteristics; cooling and heating load requirements; peak occur-rence; VRF SystemIntroduction The fixing of all air conditioning equipment, installation of all refrigerant pipework, insulation work, drain pipe work and full commissioning shall be Variable refrigerant flow (VRF) systems vary the flow of refrigerant to indoor units based on demand. When working on the equipment, observe all precautions in the literature Variable Refrigerant Flow (VRF) systems allow for the heating and/or cooling of individual zones throughout a building, as opposed to an "all or nothing" temperature setting Variable refrigerant flow (VRF) systems vary the flow of refrigerant to indoor units based on demand. These systems use linear expansion devices coupled with variable-speed condenser fans and variable-speed compressor technology to achieve high efficiency VRV is an applied heating and cooling system that distributes refrigerant, rather than water, to multiple fan coil units serving the conditioned spaces 2 Carrier® Variable Refrigerant Flow Catalog The VRF Advantages Utilizes a two-pipe system for both heat recovery and heat pump A single outdoor VRF condenser can serve up toindependent indoor units Software calculates the amount of refrigerant required to ensure desired comfort level for each and every room servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. This ability to control the amount of refrigerant that is provided to fan coil units located throughout a building makes the VRF technology ideal for applications with varying loads or where zoning is required Direct expansion systems (those that use refrigerant to directly condition the space) provide an extremely efficient method of heat exchange. This ability to control the amount of refrigerant that is provided to fan coil units located throughout a building makes the VRF technology ideal for applications with varying loads or where zoning is required Variable refrigerant flow systems with heat recovery (VRF-HR) capability can operate simultaneously in heating and/or cooling mode, enabling heat to be used rather than rejected as it would be in traditional heat pump systems VRF is a direct expansion (DX), multiple zone HVAC system. Using distributed DX piping, multiple indoor fan coils are. connected to a single VRF condenser. It utilize a two-pipe system VRF systems are larger capacity, more complex versions of the ductless multisplit systems, with the additional capability of connecting ducted style fan coil units System Overview Split air-conditioning systems One indoor unit along with an outdoor unit Ductless; low initial cost; easy installation Limited pipe length and air throw Multi Trane VRF systems utilize inverter compressors (some models feature dual compressors) with vapor injection for improved performance and comfort. Inverter controlled com Variable Refrigerant Flow (VRF) systems allow for the heating and/or cooling of individual zones throughout a building, as opposed to an "all or nothing" temperature setting The Carrier® VRF Heat Recovery system provides true, independent zone temperature control, making it perfect for design build office buildings.